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OW protein - protein search, using sw model

Run on: October 26, 2005, 04:44:07 ; Search time 28 seconds
(without alignments)
1719.595 Million cell updates/sec

Title: US-10-082-747a-93
Perfect score: 3347
Sequence: 1 MSERKEGRGKGGKRRGS.....QEEIQARLSSVIANODPIAV 645

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Issued Patente AA:*
1: /cgn2_6/ptodata/1/iaa/5A COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3347	100.0	645	1 US-07-847-743B-27	Sequence 27, Appl
2	3347	100.0	645	1 US-08-456-201-27	Sequence 27, Appl
3	3347	100.0	645	1 US-08-428-926-4	Sequence 4, Appl
4	3347	100.0	645	1 US-08-428-927-4	Sequence 4, Appl
5	3347	100.0	645	1 US-08-428-298-4	Sequence 4, Appl
6	3347	100.0	645	1 US-08-339-517-4	Sequence 4, Appl
7	3347	100.0	645	1 US-08-456-241-27	Sequence 27, Appl
8	3347	100.0	645	3 US-09-020-880-93	Sequence 93, Appl
9	3347	100.0	645	3 US-09-101-544-93	Sequence 93, Appl
10	3347	100.0	645	5 US-09-097-681-3	Sequence 3, Appl
11	3347	100.0	645	5 PCT-US92-04295A-27	Sequence 27, Appl
12	3347	100.0	732	1 US-07-847-743B-9	Sequence 9, Appl
13	3347	100.0	732	1 US-08-456-201-9	Sequence 9, Appl
14	3347	100.0	732	1 US-08-456-241-9	Sequence 9, Appl
15	3347	100.0	732	5 PCT-US92-04295A-9	Sequence 9, Appl
16	3343	99.9	645	3 US-08-753-007A-10	Sequence 10, Appl
17	3343	99.9	645	3 US-09-398-496-10	Sequence 10, Appl
18	3332.5	99.6	646	4 US-08-467-602-270	Sequence 270, App
19	3332.5	99.6	646	4 US-08-411-295F-196	Sequence 196, App
20	3311	98.9	669	4 US-08-467-602-273	Sequence 273, App
21	3311	98.9	669	4 US-08-411-295F-199	Sequence 199, App
22	3299	98.6	693	4 US-08-467-602-271	Sequence 271, App
23	3299	98.6	693	4 US-08-411-295F-197	Sequence 197, App
24	3286	98.2	637	4 US-08-467-602-258	Sequence 258, App
25	3286	98.2	637	4 US-08-411-295F-184	Sequence 184, App
26	3284	98.1	637	1 US-07-847-743B-28	Sequence 28, Appl
27	3284	98.1	637	1 US-08-456-201-28	Sequence 28, Appl

28	3284	98.1	637	2 US-08-456-241-28	Sequence 28, Appl
29	3284	98.1	637	5 PCT-US92-04295A-28	Sequence 28, Appl
30	3277.5	97.9	716	4 US-08-467-602-274	Sequence 274, App
31	3277.5	97.9	716	4 US-08-411-295F-200	Sequence 200, App
32	3264.5	97.5	660	4 US-08-467-602-264	Sequence 264, App
33	3264.5	97.5	660	4 US-08-411-295F-190	Sequence 190, App
34	3252.5	97.2	684	4 US-08-467-602-259	Sequence 259, App
35	3252.5	97.2	684	4 US-08-411-295F-185	Sequence 185, App
36	3239	96.8	649	4 US-08-467-602-267	Sequence 267, App
37	3239	96.8	649	4 US-08-411-295F-193	Sequence 193, App
38	3231	96.5	707	4 US-08-467-602-262	Sequence 262, App
39	3231	96.5	707	4 US-08-411-295F-188	Sequence 188, App
40	3205.5	95.8	696	4 US-08-467-602-268	Sequence 268, App
41	3205.5	95.8	696	4 US-08-411-295F-184	Sequence 184, App
42	3198.5	95.6	640	4 US-08-467-602-256	Sequence 256, App
43	3198.5	95.6	640	4 US-08-411-295F-182	Sequence 182, App
44	3198	95.5	895	4 US-08-467-602-354	Sequence 354, App
45	3198	95.5	895	4 US-08-411-295F-280	Sequence 280, App

ALIGNMENTS

RESULT 1
US-07-847-743B-27
Sequence 27, Application US/07847743B
Patent No. 5367060
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
TITLE OF INVENTION: Structure, Production and Use of
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
City: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/847,743B
FILING DATE: 19920306
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705256
FILING DATE: 24-May-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/765212
FILING DATE: 25-Sep-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/790801
FILING DATE: 08-No. 5367060-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hensley, Max D.
REGISTRATION NUMBER: 27,043
REFERENCE/DOCKET NUMBER: 712P3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/266-1489
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 645 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
US-07-847-743B-27
Query Match 100.0%; Score 3347; DB 1; Length 645;

Db	61	SEVSSLRFKMFKXGNELANKRKPONIKIOKKCKXSELIINRQSLADSEIWCXISLGN	120
QY	121	DSASANTTIVESNEIITGMPASTEGAYVSESPIRISVTEGCANTSSSTSTSTGTHLV	180
Db	121	DSASANTTIVESNEIITGMPASTEGAYVSESPIRISVTEGCANTSSSTSTSTGTHLV	180
QY	181	KCAKEKETPCVNGCECPMWKJDSNBPRTYCKCPNEFTGDRCONVYMASFYHGIGIEPMEA	240
Db	181	KCAKEKETPCVNGCECPMWKJDSNBPRTYCKCPNEFTGDRCONVYMASFYHGIGIEPMEA	240
QY	241	EBLYOKRVLITITGICIALLVGIMCVAYCKTKQKQKJLHDLRQSLRSERNMMNTIANG	300
Db	241	EBLYOKRVLITITGICIALLVGIMCVAYCKTKQKQKJLHDLRQSLRSERNMMNTIANG	300
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Db	301	PHHPNPPENVQVLVNOYVSKNVISSHHIYERAEIESTSHYSTIYAHSTTVYOTPEHSW	360
QY	361	SNHGTESIISESHSVIWMSSVENSRSRSPSTGPPRLNGTGGPRECSFLHAHETPDXY	420
Db	361	SNHGTESIISESHSVIWMSSVENSRSRSPSTGPPRLNGTGGPRECSFLHAHETPDXY	420
QY	421	RDSPHSERVYSAANTTPARMSPVDFHTPSSPKSPSEMSPPVSSMTVSPMSNAVSPFMEEE	480
Db	421	RDSPHSERVYSAANTTPARMSPVDFHTPSSPKSPSEMSPPVSSMTVSPMSNAVSPFMEEE	480
QY	481	RPLLVTPPLRLKXKFFDHPPOOFSSPHNHPADSNSLPASFLRIYDEDEYTTQYEPQA	540
Db	481	RPLLVTPPLRLKXKFFDHPPOOFSSPHNHPADSNSLPASFLRIYDEDEYTTQYEPQA	540
QY	541	EPVKLANSRAKRTYPNGHIANRLEVDNNTSSQSSNSESETEDEVRGEIDTFLGIONPL	600
Db	541	EPVKLANSRAKRTYPNGHIANRLEVDNNTSSQSSNSESETEDEVRGEIDTFLGIONPL	600
QY	601	AAELEATPARLADSRTPAGRSPTQEEIOARLSSVIANOPPIAV	645
Db	601	AAELEATPARLADSRTPAGRSPTQEEIOARLSSVIANOPPIAV	645
RESULT 5			
US-08-428-298-4			
Sequence 4' Application US/08428298			
Patent No. 5763213			
GENERAL INFORMATION:			
APPLICANT: Ho, Wei-Haijen			
APPLICANT: Osheroff, Phyllis L.			
TITLE OF INVENTION: SENSORY AND MOTOR NEURON DERIVED FACTOR (SMDF)			
NUMBER OF SEQUENCES: 5			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Genentech, Inc.			
STREET: 460 Point San Bruno Blvd			
CITY: South San Francisco			
STATE: California			
COUNTRY: USA			
ZIP: 94080			
COMPUTER READABLE FORM:			
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk			
COMPUTER: IBM PC compatible			
OPERATING SYSTEM: PC-DOS/MS-DOS			
SOFTWARE: patin (Genentech)			
CURRENT APPLICATION DATA:			
APPLICATION NUMBER: US/08/428,298			
FILING DATE: 25-APR-1995			
CLASSIFICATION: 435			
PRIOR APPLICATION DATA:			
APPLICATION NUMBER: 08/339517			
FILING DATE: 14-NOV-1994			
ATTORNEY/AGENT INFORMATION:			
NAME: Lee, Wendy M.			
REGISTRATION NUMBER: 00,000			
REFERENCE/DOCKET NUMBER: 853D2			
TELECOMMUNICATION INFORMATION:			

[illegible]

Db 61 SEYSLRKFMPKNGNELNRKPKPQNIKIQQKPKSELRINKASLADSGEYMKVSKLGN 120
121 DSASANITIVESNEIITGMPASTEGAYVSSSESPIRISVSTEGANTSSSTSTGTSHLV 180
121 DSASANITIVESNEIITGMPASTEGAYVSSSESPIRISVSTEGANTSSSTSTGTSHLV 180
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181 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVMAAFYKHLGIEFMEA 240
241 BELYOKRVLTITGICIALLVGIMCVVAYCKTKQKRLHDLRQSLRSEBNNMNIANG 300
241 BELYOKRVLTITGICIALLVGIMCVVAYCKTKQKRLHDLRQSLRSEBNNMNIANG 300
301 PHHPNPENVOQVNOQYVSKNVISSEHIVEREAETSFTSHYTSYTAHSTVYTOTPSHSW 360
301 PHHPNPENVOQVNOQYVSKNVISSEHIVEREAETSFTSHYTSYTAHSTVYTOTPSHSW 360
361 SNGHTESILSESHSVTVMSVENSRRHSPGTGPRGRLNGTGPRBCNSFLRHARETPDSY 420
361 SNGHTESILSESHSVTVMSVENSRRHSPGTGPRGRLNGTGPRBCNSFLRHARETPDSY 420
421 RDSPHSERVYVAMTTPARMSPVDFTPTSPSPKSPSEMSPPVSSMTVSMPSMAVSPFMEEE 480
421 RDSPHSERVYVAMTTPARMSPVDFTPTSPSPKSPSEMSPPVSSMTVSMPSMAVSPFMEEE 480
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601 AASLEATPAFRLADSRTPNAGRFSTQEEIQARLSVIANODPIAV 645

Query Match 100.0%; Score 3347; DB 3; Length 645;
Best Local Similarity 100.0%; Pred. No. 1.3e-244;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 MSERKEGRGKGKGGKKEGSGKKPESAAAGSOPALPPOLKEMKQESAAAGSKLVLRCEYS 60

RESULT 8
US-09-020-880-93
; Sequence 93, Application US/09020880A
; Patent No. 6136558
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ballinger, Marcus D.
; APPLICANT: Jones, Jennifer T.
; APPLICANT: Fairbrother, Wayne J.
; APPLICANT: Slikowski, Mark X.
; APPLICANT: Wells, James A.
; TITLE OF INVENTION: HEREGULIN VARIANTS
; FILE REFERENCE: 14918-720CON1
; CURRENT APPLICATION NUMBER: US/09/020,880A
; CURRENT FILING DATE: 1998-02-09
; EARLIER APPLICATION NUMBER: US 60/037,581
; EARLIER FILING DATE: 1997-02-10
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 93
; LENGTH: 645
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-020-880-93

QY 61 SEYSLRKFMPKNGNELNRKPKPQNIKIQQKPKSELRINKASLADSGEYMKVSKLGN 120
Db 61 SEYSLRKFMPKNGNELNRKPKPQNIKIQQKPKSELRINKASLADSGEYMKVSKLGN 120
QY 121 DSASANITIVESNEIITGMPASTEGAYVSSSESPIRISVSTEGANTSSSTSTGTSHLV 180
Db 121 DSASANITIVESNEIITGMPASTEGAYVSSSESPIRISVSTEGANTSSSTSTGTSHLV 180
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Db 181 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVMAAFYKHLGIEFMEA 240
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Db 241 BELYOKRVLTITGICIALLVGIMCVVAYCKTKQKRLHDLRQSLRSEBNNMNIANG 300
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Db 301 PHHPNPENVOQVNOQYVSKNVISSEHIVEREAETSFTSHYTSYTAHSTVYTOTPSHSW 360
QY 361 SNGHTESILSESHSVTVMSVENSRRHSPGTGPRGRLNGTGPRBCNSFLRHARETPDSY 420
Db 361 SNGHTESILSESHSVTVMSVENSRRHSPGTGPRGRLNGTGPRBCNSFLRHARETPDSY 420
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Db 421 RDSPHSERVYVAMTTPARMSPVDFTPTSPSPKSPSEMSPPVSSMTVSMPSMAVSPFMEEE 480
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Db 481 RPLLVTPPRLRBEKKFDHHPQPFSSFHNNPAHDSNSLPAFLRIYEDDEYETTOYEBAQ 540
QY 541 EPVKLANRRAKRTKPGHIANRLEVDNNTSSQSSNSESETEDEBERVGEDTFFLGIONPL 600
Db 541 EPVKLANRRAKRTKPGHIANRLEVDNNTSSQSSNSESETEDEBERVGEDTFFLGIONPL 600
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Db 601 AASLEATPAFRLADSRTPNAGRFSTQEEIQARLSVIANODPIAV 645

Query Match 100.0%; Score 3347; DB 3; Length 645;
Best Local Similarity 100.0%; Pred. No. 1.3e-244;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSERKEGRGKGKGGKKEGSGKKPESAAAGSOPALPPOLKEMKQESAAAGSKLVLRCEYS 60

RESULT 9
US-09-101-544-93
; Sequence 93, Application US/09101544
; Patent No. 6387638
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ballinger, Marcus D.
; APPLICANT: Jones, Jennifer T.
; APPLICANT: Fairbrother, Wayne J.
; APPLICANT: Slikowski, Mark X.
; APPLICANT: Wells, James A.
; TITLE OF INVENTION: HEREGULIN VARIANTS
; FILE REFERENCE: 14918-720CON2
; CURRENT APPLICATION NUMBER: US/09/101,544
; CURRENT FILING DATE: 1998-07-17
; PRIOR APPLICATION NUMBER: US 09/020,880
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: US 60/037,581
; PRIOR FILING DATE: 1997-02-10
; NUMBER OF SEQ ID NOS: 116
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 93
; LENGTH: 645
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-101-544-93

Db 1 MSERKGRGKGGKKKRGSGKKPESAGSQSPALPPOLKEMKQESAGSKLVLCETS 60
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Db 61 SEYSSLRPFKFKGNELNRKNKPONIKIOKKPKSELRINKSLADSGEYMCVISKGN 120
QY DSASANTITYESNEITGMPPASTEGAVSSESPRISVSTEGANTSSSTSTSTTGTSHLV 180
Db 121 DSASANTITYESNEITGMPPASTEGAVSSESPRISVSTEGANTSSSTSTSTTGTSHLV 180
QY 181 KCAEKETFCVNGEGCFMVVDLSNPSRYLCKCNEFTGDRCONYVMAFPYKHGIERMEA 240
Db 181 KCAEKETFCVNGEGCFMVVDLSNPSRYLCKCNEFTGDRCONYVMAFPYKHGIERMEA 240
QY 241 EELYOKRVLTITGICLALLVGMCVAVYCKTKORQKLDRLROSLRSRRNNMNIANG 300
Db 241 EELYOKRVLTITGICLALLVGMCVAVYCKTKORQKLDRLROSLRSRRNNMNIANG 300
QY 301 PPHNPPEPVOLVNOYVSKNVISSSEHIVEREAETSFSTSHYSTAHSTTTVQTSPSHW 360
Db 301 PPHNPPEPVOLVNOYVSKNVISSSEHIVEREAETSFSTSHYSTAHSTTTVQTSPSHW 360
QY 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGGPRGLNGTGPRECNSTPLRHARETDSY 420
Db 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGGPRGLNGTGPRECNSTPLRHARETDSY 420
QY 421 RDSPHSRVYVSAMTTPARMSPVDFTHTSPSPSEMSPVVSSMTVMPMAVSPFMEEE 480
Db 421 RDSPHSRVYVSAMTTPARMSPVDFTHTSPSPSEMSPVVSSMTVMPMAVSPFMEEE 480
QY 481 RPLLVTPPRLREKGFHHPOQFSSPHHNPADHNSLPASPLRIVEDEEYETTOEYEPAA 540
Db 481 RPLLVTPPRLREKGFHHPOQFSSPHHNPADHNSLPASPLRIVEDEEYETTOEYEPAA 540
QY 541 EPVKKLANSRRAKTKNGHIANRLLEVDSNTSSQSSNSESETEDERAGEOTPFPGIONPL 600
Db 541 EPVKKLANSRRAKTKNGHIANRLLEVDSNTSSQSSNSESETEDERAGEOTPFPGIONPL 600
QY 601 AASLEATPAFLADSRTPAGRFSTOEIOARLSSVIANODPIAV 645
Db 601 AASLEATPAFLADSRTPAGRFSTOEIOARLSSVIANODPIAV 645

RESULT 10
US-09-097-681-3
; Sequence 3, Application US/09097681
; Patent No. 6727077
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; APPLICANT: King, C. Richner
; APPLICANT: Hiji, Mai
; APPLICANT: Ruben, Steve
; TITLE OF INVENTION: Heregulin-Like Factor
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/097,681
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/049,942

; FILING DATE: 17-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Hoover, Kenley K.
; REGISTRATION NUMBER: 40,302
; REFERENCE/DOCKET NUMBER: PF383PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-3098504
; TELEFAX: 301-309-8439
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 645 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-097-681-3

Query Match 100.0%; Score 3347; DB 4; Length 645;
Best Local Similarity 100.0%; Pred. No. 1,3e-244;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSERKGRGKGGKKKRGSGKKPESAGSQSPALPPOLKEMKQESAGSKLVLCETS 60
Db 1 MSERKGRGKGGKKKRGSGKKPESAGSQSPALPPOLKEMKQESAGSKLVLCETS 60
QY 61 SEYSSLRPFKFKGNELNRKNKPONIKIOKKPKSELRINKSLADSGEYMCVISKGN 120
Db 61 SEYSSLRPFKFKGNELNRKNKPONIKIOKKPKSELRINKSLADSGEYMCVISKGN 120
QY 121 DSASANTITYESNEITGMPPASTEGAVSSESPRISVSTEGANTSSSTSTSTTGTSHLV 180
Db 121 DSASANTITYESNEITGMPPASTEGAVSSESPRISVSTEGANTSSSTSTSTTGTSHLV 180
QY 181 KCAEKETFCVNGEGCFMVVDLSNPSRYLCKCNEFTGDRCONYVMAFPYKHGIERMEA 240
Db 181 KCAEKETFCVNGEGCFMVVDLSNPSRYLCKCNEFTGDRCONYVMAFPYKHGIERMEA 240
QY 241 EELYOKRVLTITGICLALLVGMCVAVYCKTKORQKLDRLROSLRSRRNNMNIANG 300
Db 241 EELYOKRVLTITGICLALLVGMCVAVYCKTKORQKLDRLROSLRSRRNNMNIANG 300
QY 301 PPHNPPEPVOLVNOYVSKNVISSSEHIVEREAETSFSTSHYSTAHSTTTVQTSPSHW 360
Db 301 PPHNPPEPVOLVNOYVSKNVISSSEHIVEREAETSFSTSHYSTAHSTTTVQTSPSHW 360
QY 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGGPRGLNGTGPRECNSTPLRHARETDSY 420
Db 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGGPRGLNGTGPRECNSTPLRHARETDSY 420
QY 421 RDSPHSRVYVSAMTTPARMSPVDFTHTSPSPSEMSPVVSSMTVMPMAVSPFMEEE 480
Db 421 RDSPHSRVYVSAMTTPARMSPVDFTHTSPSPSEMSPVVSSMTVMPMAVSPFMEEE 480
QY 481 RPLLVTPPRLREKGFHHPOQFSSPHHNPADHNSLPASPLRIVEDEEYETTOEYEPAA 540
Db 481 RPLLVTPPRLREKGFHHPOQFSSPHHNPADHNSLPASPLRIVEDEEYETTOEYEPAA 540
QY 541 EPVKKLANSRRAKTKNGHIANRLLEVDSNTSSQSSNSESETEDERAGEOTPFPGIONPL 600
Db 541 EPVKKLANSRRAKTKNGHIANRLLEVDSNTSSQSSNSESETEDERAGEOTPFPGIONPL 600
QY 601 AASLEATPAFLADSRTPAGRFSTOEIOARLSSVIANODPIAV 645
Db 601 AASLEATPAFLADSRTPAGRFSTOEIOARLSSVIANODPIAV 645

RESULT 11
PCT-US92-04295A-27
; Sequence 27, Application PC/TUS9204295A
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; TITLE OF INVENTION: Structure, Production and Use of
; TITLE OF INVENTION: Heregulin

Query Match	100.0%	Score 3347	DB 5	Length 665
Best Local Similarity	100.0%	Pred. No. 1.3e-24		
Matches 645	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	1	MSERRKGRGKGGKKKKRGSGKKRPSAAGSOSPALPQLKEMKQESPAAGSKLVRCETS	60	
Db	1	MSERRKGRGKGGKKKKRGSGKKRPSAAGSOSPALPQLKEMKQESPAAGSKLVRCETS	60	
QY	61	SEYSSIRPFMFQNGNELNRKPKPQNIKIQKPKGSELRINKASLADGGEIMCVISKLN	120	
Db	61	SEYSSIRPFMFQNGNELNRKPKPQNIKIQKPKGSELRINKASLADGGEIMCVISKLN	120	
QY	121	DSASANIITTVESNEIITGMPASTBEGAYVSSSPRISVSTEGANTSSSTSTTGGSHLV	180	
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QY	361	SNCHTESILISESHVILVMSVENSRRSSPTGCPGRGLNGTGPRECNFLRHARETPDSY	420	

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Qy	541	EPVKILANSRRARKTPKNGHIANL	LEVDSNNTSSQSSNSEETEDER	GEADTPIGIONPL	600
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1      RESULT 12
2      US-07-847-743B-9
3      ; Sequence 9, Application US/07847743B
4      ; Patent No. 5367060
5      ; GENERAL INFORMATION:
6      ; APPLICANT: Genentech, Inc.
7      ; TITLE OF INVENTION: Structure, Production and Use of
8      ; TITLE OF INVENTION: Heregulin
9      ; NUMBER OF SEQUENCES: 30
10     ; CORRESPONDENCE ADDRESS:
11     ; ADDRESSEE: Genentech, Inc.
12     ; STREET: 460 Point San Bruno Blvd
13     ; CITY: South San Francisco
14     ; STATE: California
15     ; COUNTRY: USA
16     ; ZIP: 94080
17     ; COMPUTER READABLE FORM:
18     ; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
19     ; COMPUTER: IBM PC compatible
20     ; OPERATING SYSTEM: PC-DOS/MS-DOS
21     ; SOFTWARE: Patin (Genentech)
22     ; CURRENT APPLICATION DATA:
23     ; APPLICATION NUMBER: US/07/847, 743B
24     ; FILING DATE: 19920306
25     ; CLASSIFICATION: 424
26     ; PRIOR APPLICATION DATA:
27     ; APPLICATION NUMBER: 07/705256
28     ; FILING DATE: 24-May-1991
29     ; PRIOR APPLICATION DATA:
30     ; APPLICATION NUMBER: 07/765212
31     ; FILING DATE: 25-Sep-1991
32     ; PRIOR APPLICATION DATA:
33     ; APPLICATION NUMBER: 07/790801
34     ; FILING DATE: 08-No. 5367060-1991
35     ; ATTORNEY/AGENT INFORMATION:
36     ; NAME: Hensley, Max D.
37     ; REGISTRATION NUMBER: 27, 043
38     ; REFERENCE/DOCKET NUMBER: 712P3
39     ; TELECOMMUNICATION INFORMATION:
40     ; TELEPHONE: 415/266-1489
41     ; TELEFAX: 415/952-9881
42     ; TELEX: 910/371-7168
43     ; INFORMATION FOR SEQ ID NO: 9:
44     ; SEQUENCE CHARACTERISTICS:
45     ; LENGTH: 732 amino acids
46     ; TYPE: AMINO ACID
47     ; TOPOLOGY: linear
48     ; IS-07-847-743B-9

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Query Match	100.0%	Score 3347	DB 1	Length 732
Best Local Similarity	100.0%	Pred. No. 1,6e-244		
Matches 645; Conservative	0;	Mismatches	0;	Gaps 0

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: October 26, 2005, 04:48:43 ; Search time 168 Seconds
(Without alignments)
1602.943 Million cell updates/sec

Title: US-10-082-747a-93

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Gapop 10.0, Gapext 0.5

Searched: 1862994 seqs, 417510619 residues

Total number of hits satisfying chosen parameters: 1862994

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 2: /cgn2_6/ptodata/2/pubppa/PTCT_NEW_PUB.pcp:*
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- 22: /cgn2_6/ptodata/2/pubppa/US60_PUBCOMB.pcp:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	3347	100.0	645	US-10-082-747a-93	Sequence 93, Appl
2	3347	100.0	645	US-10-207-498-4	Sequence 4, Appl
3	3347	100.0	645	US-10-609-370-3	Sequence 3, Appl
4	3347	100.0	645	US-11-037-713-44	Sequence 44, Appl
5	3347	100.0	675	US-09-773-517-3	Sequence 3, Appl
6	3347	100.0	675	US-09-793-025-3	Sequence 3, Appl
7	3347	100.0	675	US-09-849-868-3	Sequence 3, Appl
8	3347	100.0	675	US-10-453-183-3	Sequence 3, Appl
9	3343	99.9	645	US-10-086-241-10	Sequence 10, Appl
10	3343	99.9	645	US-10-899-227-10	Sequence 10, Appl
11	3337	99.7	645	US-10-995-011-13	Sequence 13, Appl

12	3284	98.1	637	9	US-09-773-517-5	Sequence 5, Appl
13	3284	98.1	637	9	US-09-792-025-5	Sequence 5, Appl
14	3284	98.1	637	9	US-09-849-868-5	Sequence 5, Appl
15	3284	98.1	637	14	US-10-453-183-5	Sequence 14, Appl
16	3280	98.0	637	18	US-10-995-011-14	Sequence 18, Appl
17	3249	97.1	637	9	US-09-795-668-13	Sequence 13, Appl
18	3249	97.1	637	9	US-09-795-668-13	Sequence 13, Appl
19	3249	97.1	637	9	US-09-946-807-13	Sequence 13, Appl
20	3202.5	95.7	640	20	US-11-037-713-43	Sequence 43, Appl
21	3192.5	95.4	640	18	US-10-995-011-16	Sequence 16, Appl
22	3192	95.4	629	9	US-09-795-668-14	Sequence 14, Appl
23	3192	95.4	629	9	US-09-795-668-14	Sequence 14, Appl
24	3129.5	93.5	669	9	US-09-773-517-1	Sequence 1, Appl
25	3129.5	93.5	669	9	US-09-773-517-1	Sequence 1, Appl
26	3129.5	93.5	669	9	US-09-792-025-1	Sequence 1, Appl
27	3129.5	93.5	669	9	US-09-849-868-1	Sequence 1, Appl
28	3129.5	93.5	669	14	US-10-022-609-11	Sequence 11, Appl
29	3129.5	93.5	669	14	US-10-453-183-1	Sequence 14, Appl
30	3104.5	92.8	632	9	US-09-795-668-16	Sequence 16, Appl
31	3104.5	92.8	632	9	US-09-946-807-16	Sequence 16, Appl
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33	2861	85.5	552	18	US-10-995-011-29	Sequence 29, Appl
34	2813	84.0	548	9	US-09-795-668-29	Sequence 29, Appl
35	2813	84.0	548	9	US-09-795-668-29	Sequence 29, Appl
36	2813	84.0	548	9	US-09-946-807-29	Sequence 29, Appl
37	2176	65.0	420	9	US-09-773-517-9	Sequence 9, Appl
38	2176	65.0	420	9	US-09-792-025-9	Sequence 9, Appl
39	2176	65.0	420	9	US-09-849-868-9	Sequence 9, Appl
40	2176	65.0	420	14	US-10-453-183-9	Sequence 14, Appl
41	2086.5	62.2	462	18	US-10-408-765A-883	Sequence 883, Appl
42	2080.5	62.2	462	18	US-10-995-011-17	Sequence 17, Appl
43	2032.5	60.7	456	9	US-09-795-668-17	Sequence 17, Appl
44	2032.5	60.7	456	9	US-09-795-668-17	Sequence 17, Appl
45	2032.5	60.7	456	9	US-09-946-807-17	Sequence 17, Appl

ALIGNMENTS

RESULT 1
US-10-082-747a-93
Sequence 93, Application US/10082747A
Publication No. US20030129688A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ballinger, Marcus D.
APPLICANT: Jones, Jennifer T.
APPLICANT: Fairbrother, Wayne J.
APPLICANT: Sliwkowski, Mark X.
TITLE OF INVENTION: HERGULIN VARIANTS
FILE REFERENCE: 402E-476112US
CURRENT APPLICATION NUMBER: US/10/082,747A
CURRENT FILING DATE: 2002-09-16
PRIOR APPLICATION NUMBER: US 09/101,544
PRIOR FILING DATE: 1998-07-17
PRIOR APPLICATION NUMBER: PCT/US/98/01579
PRIOR FILING DATE: 1998-02-10
PRIOR APPLICATION NUMBER: US 08/799,054
PRIOR FILING DATE: 1997-02-10
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 93
LENGTH: 645
TYPE: PRT
ORGANISM: Homo sapiens
US-10-082-747a-93
Query Match 100.0%; Score 3347; DB 14; Length 645;
Best Local Similarity 100.0%; Pred. No. 7.5e-195;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; Sequence 4, Application US/10207498
; Publication No. US20030143568A1
; GENERAL INFORMATION:
; APPLICANT: Elizabeth Singer
; APPLICANT: Ralf Landgraf
; APPLICANT: Dennis J. Slamon
; APPLICANT: David Eisenberg
; TITLE OF INVENTION: METHODS AND MATERIALS FOR CHARACTERIZING
; TITLE OF INVENTION: AND MODULATING INTERACTIONS BETWEEN HERGULIN AND HER3
; FILE REFERENCE: 30448.103-US-U1
; CURRENT APPLICATION NUMBER: US/10/207,498
; PRIOR FILING DATE: 2002-07-29
; PRIOR APPLICATION NUMBER: 60/308,431
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PaateSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 645
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; ORGANISM: Homo sapiens
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; APPLICANT: Young et al.
; TITLE OF INVENTION: Heregulin-Like Factor
; FILE REFERENCE: Pj383d1
; CURRENT APPLICATION NUMBER: US/10/609,370
; PRIOR FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: 09/097,681
; PRIOR FILING DATE: 1998-06-16
; CURRENT APPLICATION NUMBER: 60/049,942
; PRIOR FILING DATE: 1997-06-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
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US-10-609-370-3
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DB 241 BELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLHDLRQSLRSRRNNMMNIANG 300
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QY 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGCPGRGLNGTGPRECNFLRHARETSDY 420
DB 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGCPGRGLNGTGPRECNFLRHARETSDY 420
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DB 481 RPLLVTPPRLREKKPDHHPQOFSSFHHNPAHDSNSLPASPLRIVEDEEYETTOEYPAQ 540
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DB 541 EPVKKLANSRRARKTKNGHIANRLEVDNNTSSQSSNSESETEDEBERGDETPFLGIONPL 600
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US-11-037-713-44
; Sequence 44, Application US/11037713
; Publication No. US20050221398A1
; GENERAL INFORMATION:
; APPLICANT: JACQUEMIER, JOCELYNE
; APPLICANT: BERTUCCI, FRANCOIS
; APPLICANT: BIRNBAUM, DANIEL
; APPLICANT: DEBONO, STEPHANE
; APPLICANT: TASETTI, REBECCA
; TITLE OF INVENTION: PROTEIN EXPRESSION PROFILING AND BREAST CANCER
; FILE REFERENCE: 1016-R-04(B)
; CURRENT APPLICATION NUMBER: US/11/037,713
; PRIOR FILING DATE: 2005-01-18
; PRIOR APPLICATION NUMBER: 60/537,412
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 44
; LENGTH: 645
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-037-713-44

Query Match 100.0%; Score 3347; DB 20; Length 645;
Best Local Similarity 100.0%; Pred. No. 7.5e-195;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 SEYSLRPFKMFKNQNELNRKNRPONIKIOKKPGKSELRINKASLADSGEYMKVLSKLG 120
QY 121 DSASANTITVESNEIITGMPASTEGAYVSESPRIRISVSTEGANTSSSTSTSTTGTSHLV 180
DB 121 DSASANTITVESNEIITGMPASTEGAYVSESPRIRISVSTEGANTSSSTSTSTTGTSHLV 180
QY 181 KCAEKEKTCVNGGECFPMVKDLSNPSRYLCKCPNEFTGRCQNYVASFYKHLGIEFMEA 240
DB 181 KCAEKEKTCVNGGECFPMVKDLSNPSRYLCKCPNEFTGRCQNYVASFYKHLGIEFMEA 240
QY 241 BELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLHDLRQSLRSRRNNMMNIANG 300
DB 241 BELYOKRVLTITGICIALLVGIMCVAYCKTKKQKRLHDLRQSLRSRRNNMMNIANG 300
QY 301 PHHPNPPENVQLVNOYVSKNVISSSEHIVERAEFTSFSTSHYSTAHSTTVTQTPSHSW 360
DB 301 PHHPNPPENVQLVNOYVSKNVISSSEHIVERAEFTSFSTSHYSTAHSTTVTQTPSHSW 360
QY 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGCPGRGLNGTGPRECNFLRHARETSDY 420
DB 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGCPGRGLNGTGPRECNFLRHARETSDY 420
QY 421 RDSPHSERVYSAANTTPPARMSPVDFHTPSSPKSPPESESPVSSMTVSMPSMAVSPFMEEE 480
DB 421 RDSPHSERVYSAANTTPPARMSPVDFHTPSSPKSPPESESPVSSMTVSMPSMAVSPFMEEE 480
QY 481 RPLLVTPPRLREKKPDHHPQOFSSFHHNPAHDSNSLPASPLRIVEDEEYETTOEYPAQ 540
DB 481 RPLLVTPPRLREKKPDHHPQOFSSFHHNPAHDSNSLPASPLRIVEDEEYETTOEYPAQ 540
QY 541 EPVKKLANSRRARKTKNGHIANRLEVDNNTSSQSSNSESETEDEBERGDETPFLGIONPL 600
DB 541 EPVKKLANSRRARKTKNGHIANRLEVDNNTSSQSSNSESETEDEBERGDETPFLGIONPL 600
QY 601 AASLEATPAFLADSRTPNPAGRFSTOEIOARLSSVIANODPIAV 645
DB 601 AASLEATPAFLADSRTPNPAGRFSTOEIOARLSSVIANODPIAV 645

RESULT 5

US-09-773-517-3
; Sequence 3, Application US/09773517
; Patent No. US20010023241A1
; GENERAL INFORMATION:
; APPLICANT: Sliwkowski, Mark
; APPLICANT: Kern, Jeffrey
; TITLE OF INVENTION: Use of Heregulin as a Growth Factor
; FILE REFERENCE: P1145R1
; CURRENT APPLICATION NUMBER: US/09/773,517
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 09/243,198
; NUMBER OF SEQ ID NOS: 14
; SEQ ID NO 3
; LENGTH: 675
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-773-517-3

Query Match 100.0%; Score 3347; DB 9; Length 675;
Best Local Similarity 100.0%; Pred. No. 7.9e-195;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSERKEGKGKGGKKGKRGSGKPSAAGSQSPALPDLKMKKSQESAAGSKVLRCETS 60
DB 31 MSERKEGKGKGGKKGKRGSGKPSAAGSQSPALPDLKMKKSQESAAGSKVLRCETS 90
QY 61 SEYSLRPFKMFKNQNELNRKNRPONIKIOKKPGKSELRINKASLADSGEYMKVLSKLG 120
|||||

Db 91 SEYSLRFKMFNGNELNRKNKPONIKIQKPKGSELRINKASLADSGEYMKVSKLGN 150
QY 121 DASANITTVESNEITTMPASTEGAYVSSSEPIRISVSTEGANTSSSTSTGTGSHLV 180
Db 151 DASANITTVESNEITTMPASTEGAYVSSSEPIRISVSTEGANTSSSTSTGTGSHLV 210
QY 181 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVYMASFYKLGIEFMEA 240
Db 211 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVYMASFYKLGIEFMEA 270
QY 241 BELYOKRVLTITGICIALLVGIMCVAYCKTKQKQKLDRLRQSLRSEERNMMNIANG 300
Db 271 BELYOKRVLTITGICIALLVGIMCVAYCKTKQKQKLDRLRQSLRSEERNMMNIANG 330
QY 301 PHHPPPPPPVQVNVQYVSKNVISSEHYVERAEKTSFSTSHYSTAHSTYTQTPSHW 360
Db 331 PHHPPPPPPVQVNVQYVSKNVISSEHYVERAEKTSFSTSHYSTAHSTYTQTPSHW 390
QY 361 SNGHTESILSESHSVYVMSVENSRRHSPTGPRGRNLGTGPRECNSEFLRHARETPDSY 420
Db 391 SNGHTESILSESHSVYVMSVENSRRHSPTGPRGRNLGTGPRECNSEFLRHARETPDSY 450
QY 421 RDSPHSERVYVAMTTPARMSPVDFHTPSPKSPPEMSPPVSMVYVMSMAVSPFMEBE 480
Db 451 RDSPHSERVYVAMTTPARMSPVDFHTPSPKSPPEMSPPVSMVYVMSMAVSPFMEBE 510
QY 481 RPLLVTPRLREKKFDHHPQOFSSFHNNPAHDSNSLPASPLRIYDEDEYETTOEYEPAQ 540
Db 511 RPLLVTPRLREKKFDHHPQOFSSFHNNPAHDSNSLPASPLRIYDEDEYETTOEYEPAQ 570
QY 541 EBYVKLANSRRAKRTKPNGHIANRLEVDNNTSSQSSNSESETEDEVRGEDTPELGIQNP 600
Db 571 EBYVKLANSRRAKRTKPNGHIANRLEVDNNTSSQSSNSESETEDEVRGEDTPELGIQNP 630
QY 601 AASLEATPAFRLADSRTPAGRFSTOEIQAARLSSVIANODPIAV 645
Db 631 AASLEATPAFRLADSRTPAGRFSTOEIQAARLSSVIANODPIAV 675

RESULT 6
US-09-792-025-3
Sequence 3, Application US/09792025
Patent No. US20020042087A1
GENERAL INFORMATION:
APPLICANT: Silkwski, Mark
Kern, Jeffrey
TITLE OF INVENTION: Use of Heregulin as a Growth Factor
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/792,025
FILING DATE: 23-Feb-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/020,598
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Schwartz, Timothy R.
REGISTRATION NUMBER: 321171
REFERENCE/DOCKET NUMBER: P1145
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-7467

TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 675 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
MOLECULE TYPE: amino acid
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-792-025-3

Query Match 100.0%; Score 3347; DB 9; Length 675;
Best Local Similarity 100.0%; Pred. No. 7.9e-195;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSEREGKGGKGGKKEGSGKKPESAAAGSOPALPOLKEKKSQESAAGSKLYRCETS 60
Db 31 MSEREGKGGKGGKKEGSGKKPESAAAGSOPALPOLKEKKSQESAAGSKLYRCETS 90
QY 61 SEYSLRFKMFNGNELNRKNKPONIKIQKPKGSELRINKASLADSGEYMKVSKLGN 120
Db 91 SEYSLRFKMFNGNELNRKNKPONIKIQKPKGSELRINKASLADSGEYMKVSKLGN 150
QY 121 DASANITTVESNEITTMPASTEGAYVSSSEPIRISVSTEGANTSSSTSTGTGSHLV 180
Db 151 DASANITTVESNEITTMPASTEGAYVSSSEPIRISVSTEGANTSSSTSTGTGSHLV 210
QY 181 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVYMASFYKLGIEFMEA 240
Db 211 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVYMASFYKLGIEFMEA 270
QY 241 BELYOKRVLTITGICIALLVGIMCVAYCKTKQKQKLDRLRQSLRSEERNMMNIANG 300
Db 271 BELYOKRVLTITGICIALLVGIMCVAYCKTKQKQKLDRLRQSLRSEERNMMNIANG 330
QY 301 PHHPPPPPPVQVNVQYVSKNVISSEHYVERAEKTSFSTSHYSTAHSTYTQTPSHW 360
Db 331 PHHPPPPPPVQVNVQYVSKNVISSEHYVERAEKTSFSTSHYSTAHSTYTQTPSHW 390
QY 361 SNGHTESILSESHSVYVMSVENSRRHSPTGPRGRNLGTGPRECNSEFLRHARETPDSY 420
Db 391 SNGHTESILSESHSVYVMSVENSRRHSPTGPRGRNLGTGPRECNSEFLRHARETPDSY 450
QY 421 RDSPHSERVYVAMTTPARMSPVDFHTPSPKSPPEMSPPVSMVYVMSMAVSPFMEBE 480
Db 451 RDSPHSERVYVAMTTPARMSPVDFHTPSPKSPPEMSPPVSMVYVMSMAVSPFMEBE 510
QY 481 RPLLVTPRLREKKFDHHPQOFSSFHNNPAHDSNSLPASPLRIYDEDEYETTOEYEPAQ 540
Db 511 RPLLVTPRLREKKFDHHPQOFSSFHNNPAHDSNSLPASPLRIYDEDEYETTOEYEPAQ 570
QY 541 EBYVKLANSRRAKRTKPNGHIANRLEVDNNTSSQSSNSESETEDEVRGEDTPELGIQNP 600
Db 571 EBYVKLANSRRAKRTKPNGHIANRLEVDNNTSSQSSNSESETEDEVRGEDTPELGIQNP 630
QY 601 AASLEATPAFRLADSRTPAGRFSTOEIQAARLSSVIANODPIAV 645
Db 631 AASLEATPAFRLADSRTPAGRFSTOEIQAARLSSVIANODPIAV 675

RESULT 7
US-09-849-868-3
Sequence 3, Application US/09849868
Patent No. US20020061299A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
FILING DATE: 2001-05-04
TITLE OF INVENTION: HAIR CELL DISORDERS
FILE REFERENCE: GENENT.035VPC
CURRENT APPLICATION NUMBER: US/09/849,868
CURRENT FILING DATE: 2001-05-04
NUMBER OF SEQ ID NOS: 14
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3

LENGTH: 675
TYPE: PRT
ORGANISM: Homo sapiens
US-09-849-868-3

Query Match 100.0%; Score 3347; DB 9; Length 675;
Best Local Similarity 100.0%; Pred. No. 7.9e-195;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MSRRKGRGKGGKKKKRSGGKKPESAGSOSPALPPOLKEMKSOBSAAGSKVLVLCETS 60
31 MSRRKGRGKGGKKKKRSGGKKPESAGSOSPALPPOLKEMKSOBSAAGSKVLVLCETS 90
61 SEYSSLRFKMFKNGNELNKNKPONIKIQKPKGSELRINKASLADSGEYMCVLSKLG 120
91 SEYSSLRFKMFKNGNELNKNKPONIKIQKPKGSELRINKASLADSGEYMCVLSKLG 150
121 DSASANITIVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTTGTSHLV 180
151 DSASANITIVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTTGTSHLV 210
181 KCAEKERTCVANGCECFMVKDLSNPSRYLCKCPNEFTGRCQNYVMAFYKHLGIEFMEA 240
211 KCAEKERTCVANGCECFMVKDLSNPSRYLCKCPNEFTGRCQNYVMAFYKHLGIEFMEA 270
241 EELYOKRVLTITGICIALLVGIMCVVAYCKTKQKQKLDRLRQSLRSENNMNIANG 300
271 EELYOKRVLTITGICIALLVGIMCVVAYCKTKQKQKLDRLRQSLRSENNMNIANG 330
301 PPHNPPEPVQVQVNOYVSNVISEHIVEREAETSFSTSHYTAHSTTVTQTPSHW 360
331 PPHNPPEPVQVQVNOYVSNVISEHIVEREAETSFSTSHYTAHSTTVTQTPSHW 390
361 SNGHTSIISESHSVIWMSSVENSRRSSPTGGPRGLNGTGGPRECNSFLRHARETSDY 420
391 SNGHTSIISESHSVIWMSSVENSRRSSPTGGPRGLNGTGGPRECNSFLRHARETSDY 450
421 RDSPHSERVYSAANTTPARMSPVDFHTPSSPKSPPESEKSPVSSMTVMPMAVSPFMEEE 480
451 RDSPHSERVYSAANTTPARMSPVDFHTPSSPKSPPESEKSPVSSMTVMPMAVSPFMEEE 510
481 RPLLVTPPLREKKEPDHPQOFSFHHNPADHNSLIPASPLRIVEDEEYETTOEYEPAA 540
511 RPLLVTPPLREKKEPDHPQOFSFHHNPADHNSLIPASPLRIVEDEEYETTOEYEPAA 570
541 EPYKCLANSRRARKTKPENGHIANRLEVDNNTSSQSSNSESETBEDERVGEDTPLGIONPL 600
571 EPYKCLANSRRARKTKPENGHIANRLEVDNNTSSQSSNSESETBEDERVGEDTPLGIONPL 630
601 AASLEATPAFLADSRTPAGRFSTOEIOARLSSVIANODPIAV 645
631 AASLEATPAFLADSRTPAGRFSTOEIOARLSSVIANODPIAV 675

RESULT 8
US-10-453-183-3
Sequence 3, Application US/10453183
Publication No. US20030198429A1
GENERAL INFORMATION:
APPLICANT: Sliwowski, Mark
TITLE OF INVENTION: Use of Heregulin as a Growth Factor
FILE REFERENCE: P1145R1
CURRENT APPLICATION NUMBER: US/10/453.183
CURRENT FILING DATE: 2003-06-03
PRIOR APPLICATION NUMBER: US/09/243.198
PRIOR FILING DATE: 1999-02-02
PRIOR APPLICATION NUMBER: US 60/073,866
NUMBER OF SEQ ID NOS: 14
SEQ ID NO 3
LENGTH: 675
TYPE: PRT

ORGANISM: Homo sapiens
US-10-453-183-3

Query Match 100.0%; Score 3347; DB 14; Length 675;
Best Local Similarity 100.0%; Pred. No. 7.9e-195;
Matches 645; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MSRRKGRGKGGKKKKRSGGKKPESAGSOSPALPPOLKEMKSOBSAAGSKVLVLCETS 60
31 MSRRKGRGKGGKKKKRSGGKKPESAGSOSPALPPOLKEMKSOBSAAGSKVLVLCETS 90
61 SEYSSLRFKMFKNGNELNKNKPONIKIQKPKGSELRINKASLADSGEYMCVLSKLG 120
91 SEYSSLRFKMFKNGNELNKNKPONIKIQKPKGSELRINKASLADSGEYMCVLSKLG 150
121 DSASANITIVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTTGTSHLV 180
151 DSASANITIVESNEIITGMPASTEGAYVSESPRISVSTEGANTSSSTSTTGTSHLV 210
181 KCAEKERTCVANGCECFMVKDLSNPSRYLCKCPNEFTGRCQNYVMAFYKHLGIEFMEA 240
211 KCAEKERTCVANGCECFMVKDLSNPSRYLCKCPNEFTGRCQNYVMAFYKHLGIEFMEA 270
241 EELYOKRVLTITGICIALLVGIMCVVAYCKTKQKQKLDRLRQSLRSENNMNIANG 300
271 EELYOKRVLTITGICIALLVGIMCVVAYCKTKQKQKLDRLRQSLRSENNMNIANG 330
301 PPHNPPEPVQVQVNOYVSNVISEHIVEREAETSFSTSHYTAHSTTVTQTPSHW 360
331 PPHNPPEPVQVQVNOYVSNVISEHIVEREAETSFSTSHYTAHSTTVTQTPSHW 390
361 SNGHTSIISESHSVIWMSSVENSRRSSPTGGPRGLNGTGGPRECNSFLRHARETSDY 420
391 SNGHTSIISESHSVIWMSSVENSRRSSPTGGPRGLNGTGGPRECNSFLRHARETSDY 450
421 RDSPHSERVYSAANTTPARMSPVDFHTPSSPKSPPESEKSPVSSMTVMPMAVSPFMEEE 480
451 RDSPHSERVYSAANTTPARMSPVDFHTPSSPKSPPESEKSPVSSMTVMPMAVSPFMEEE 510
481 RPLLVTPPLREKKEPDHPQOFSFHHNPADHNSLIPASPLRIVEDEEYETTOEYEPAA 540
511 RPLLVTPPLREKKEPDHPQOFSFHHNPADHNSLIPASPLRIVEDEEYETTOEYEPAA 570
541 EPYKCLANSRRARKTKPENGHIANRLEVDNNTSSQSSNSESETBEDERVGEDTPLGIONPL 600
571 EPYKCLANSRRARKTKPENGHIANRLEVDNNTSSQSSNSESETBEDERVGEDTPLGIONPL 630
601 AASLEATPAFLADSRTPAGRFSTOEIOARLSSVIANODPIAV 645
631 AASLEATPAFLADSRTPAGRFSTOEIOARLSSVIANODPIAV 675

RESULT 9
US-10-096-241-10
Sequence 10, Application US/10096241
Publication No. US20020127394A1
GENERAL INFORMATION:
APPLICANT: Gearling, David P.
TITLE OF INVENTION: DON-1 GENE AND POLYPEPTIDES
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESSES:
ADDRESS: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS

[illegible]

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RESULT 10
US-10-899-227-10
/ Sequence 10, Application US/10899227
/ Publication No. US20040265970A1
/ GENERAL INFORMATION:
/ APPLICANT: Gearing, David P.
/ Busfield, Samantha J.
/ TITLE OF INVENTION: DON-1 GENE AND POLYPEPTIDES
/ AND USES THEREFOR
/ NUMBER OF SEQUENCES: 33
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Fish & Richardson P.C.
/ STREET: 225 Franklin Street
/ CITY: Boston
/ STATE: MA
/ COUNTRY: US
/ ZIP: 02110-2804
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/10/899, 227
/ FILING DATE: 26-Jul-2004
/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/10/096, 241
/ FILING DATE: 12-Mar-2002
/ APPLICATION NUMBER: 08/599, 591
/ FILING DATE: 19-AUG-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Fasse, J. Peter
/ REGISTRATION NUMBER: 32, 983
/ REFERENCE/DOCKET NUMBER: 07334/022001
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 617-542-5070
/ TELEFAX: 617-542-8906
/ TELEX: <Unknown>
/ INFORMATION FOR SEQ ID NO: 10:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 645 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: not relevant
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-10-899-227-10

Query Match 99.9%; Score 3343; DB 16; Length 645;
Beet Local Similarity 99.8%; Pred.No. 1.3e-194;
Matches 644; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSERKERGKGGKGGKRGSGKKEPSAAGSOSPALPPLQKMKKSQESAAGSKLVLCRTS 60
Db 1 MSERKERGKGGKGGKRGSGKKEPSAAGSOSPALPPLQKMKKSQESAAGSKLVLCRTS 60
QY 61 SEYSSLRFKPFKNGNEINRKNKPNIKIQKKPKGSELRINKASLADSGEYCKVYSKLG 120
Db 61 SEYSSLRFKPFKNGNEINRKNKPNIKIQKKPKGSELRINKASLADSGEYCKVYSKLG 120
QY 121 DSAASANTTIYESNEIITGMPASTGAYVSSSPRISIVSTEGANTSSGTSITGTSILV 180
Db 121 DSAASANTTIYESNEIITGMPASTGAYVSSSPRISIVSTEGANTSSGTSITGTSILV 180
QY 181 KCAEKERTFCVNGGECFMVNDLSNPSSRYLCKPNEFTGDRCONVYMASFYKGLGIEFMEA 240
Db 181 KCAEKERTFCVNGGECFMVNDLSNPSSRYLCKPNEFTGDRCONVYMASFYKGLGIEFMEA 240
QY 241 BELYQKRVLTITGICALLVVGINCVAAYCTTKQKRLHRLQSLSEENNNMNIING 300
Db 241 BELYQKRVLTITGICALLVVGINCVAAYCTTKQKRLHRLQSLSEENNNMNIING 300

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Db 241 BELYQKRVLTITGICIALLVGIMCVAACTKKQKQKLDRLQSLRSENNMNIANG 300
QY 301 PPHNPPPPENVOLVNOVYKNISSSEHIVERAEFTSFTSHYTAHSTTVTQTPSHSW 360
Db 301 PPHNPPPPENVOLVNOVYKNISSSEHIVERAEFTSFTSHYTAHSTTVTQTPSHSW 360
QY 361 SNHTESSILSESHSVIWMSSVENSRRHSSPTGPRGRLNGTGGPRECSFLRAHRETPDSY 420
Db 361 SNHTESSILSESHSVIWMSSVENSRRHSSPTGPRGRLNGTGGPRECSFLRAHRETPDSY 420
QY 421 RDSPHSERVYSAMTTPPARMSPVDFHTPSPSPSEKSPVSSMTVSMPSMAVSPFMEEE 480
Db 421 RDSPHSERVYSAMTTPPARMSPVDFHTPSPSPSEKSPVSSMTVSMPSMAVSPFMEEE 480
QY 481 RPLLLVTPPLRREKKEFDHHPQOFSFHHNPAHDSNLSLPASPLRIVEDEEYETTOEYEPAQ 540
Db 481 RPLLLVTPPLRREKKEFDHHPQOFSFHHNPAHDSNLSLPASPLRIVEDEEYETTOEYEPAQ 540
QY 541 EPVKKLANSRRARKTKENGHIANRLEVDNNTSSQSSNSESETEDEVEDTPELGIQNP 600
Db 541 EPVKKLANSRRARKTKENGHIANRLEVDNNTSSQSSNSESETEDEVEDTPELGIQNP 600
QY 601 AASLEATPAFLADSRTPNPAGRFSTOEIOARLSSVIANODPIAV 645
Db 601 AASLEATPAFLADSRTPNPAGRFSTOEIOARLSSVIANODPIAV 645

RESULT 11

US-10-995-011-13
Sequence 13, Application US/10995011
Publication No. US20050208527A1
GENERAL INFORMATION:
APPLICANT: Stefansson, Hreinm
APPLICANT: Steinhorsdottir, Valgerdur
APPLICANT: Guiney, Mark
APPLICANT: Guiney, Mark
APPLICANT: Andreasson, Thorkeil
TITLE OF INVENTION: Human Schizophrenia Gene
FILE REFERENCE: 2345 2004-021
CURRENT APPLICATION NUMBER: US/10/995,011
CURRENT FILING DATE: 2004-11-22
PRIOR APPLICATION NUMBER: US 10/107,604
PRIOR FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: US 09/946,807
PRIOR FILING DATE: 2001-09-05
PRIOR APPLICATION NUMBER: PCT/US01/06377
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: US 09/795,668
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: US 09/515,716
PRIOR FILING DATE: 2000-02-28
NUMBER OF SEQ ID NOS: 1676
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 645
TYPE: PRT
ORGANISM: Homo sapiens
US-10-995-011-13

Query Match 99.7%; Score 3337; DB 18; Length 645;
Best Local Similarity 99.7%; Pred. No. 3e-194;
Matches 643; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MSERKEGKGKGGKKEGSGKKPESAGSOSPALPOLKEMKQESAGSKVLVRCETS 60
Db 1 MSERKEGKGKGGKKEGSGKKPESAGSOSPALPOLKEMKQESAGSKVLVRCETS 60
QY 61 SEYSLRFKMFQNGNELNRKNKPNIKIQKKPGKSELINRINAKSLADSGEYMKVSKLGN 120
Db 61 SEYSLRFKMFQNGNELNRKNKPNIKIQKKPGKSELINRINAKSLADSGEYMKVSKLGN 120
QY 121 DSASANTTVESNEITGMPTASTGAYVSSSPRIRISVSTEGANTSSSTSTTGTSHLV 180
Db 121 DSASANTTVESNEITGMPTASTGAYVSSSPRIRISVSTEGANTSSSTSTTGTSHLV 180

Db 121 DSASANTTVESNEITGMPTASTGAYVSSSPRIRISVSTEGANTSSSTSTTGTSHLV 180
QY 181 KCAEKEKTCVNGGCECFMYKDLNRPRIYCKCPNETGRCQNYWAAEFYKHLGIEFMA 240
Db 181 KCAEKEKTCVNGGCECFMYKDLNRPRIYCKCPNETGRCQNYWAAEFYKHLGIEFMA 240
QY 241 BELYQKRVLTITGICIALLVGIMCVAACTKKQKQKLDRLQSLRSENNMNIANG 300
Db 241 BELYQKRVLTITGICIALLVGIMCVAACTKKQKQKLDRLQSLRSENNMNIANG 300
QY 301 PPHNPPPPENVOLVNOVYKNISSSEHIVERAEFTSFTSHYTAHSTTVTQTPSHSW 360
Db 301 PPHNPPPPENVOLVNOVYKNISSSEHIVERAEFTSFTSHYTAHSTTVTQTPSHSW 360
QY 361 SNHTESSILSESHSVIWMSSVENSRRHSSPTGPRGRLNGTGGPRECSFLRAHRETPDSY 420
Db 361 SNHTESSILSESHSVIWMSSVENSRRHSSPTGPRGRLNGTGGPRECSFLRAHRETPDSY 420
QY 421 RDSPHSERVYSAMTTPPARMSPVDFHTPSPSPSEKSPVSSMTVSMPSMAVSPFMEEE 480
Db 421 RDSPHSERVYSAMTTPPARMSPVDFHTPSPSPSEKSPVSSMTVSMPSMAVSPFMEEE 480
QY 481 RPLLLVTPPLRREKKEFDHHPQOFSFHHNPAHDSNLSLPASPLRIVEDEEYETTOEYEPAQ 540
Db 481 RPLLLVTPPLRREKKEFDHHPQOFSFHHNPAHDSNLSLPASPLRIVEDEEYETTOEYEPAQ 540
QY 541 EPVKKLANSRRARKTKENGHIANRLEVDNNTSSQSSNSESETEDEVEDTPELGIQNP 600
Db 541 EPVKKLANSRRARKTKENGHIANRLEVDNNTSSQSSNSESETEDEVEDTPELGIQNP 600
QY 601 AASLEATPAFLADSRTPNPAGRFSTOEIOARLSSVIANODPIAV 645
Db 601 AASLEATPAFLADSRTPNPAGRFSTOEIOARLSSVIANODPIAV 645

RESULT 12

US-09-773-517-5
Sequence 5, Application US/09773517
Patent No. US20010023241A1
GENERAL INFORMATION:
APPLICANT: Sliwowski, Mark
APPLICANT: Kern, Jeffrey
TITLE OF INVENTION: Use of Heregulin as a Growth Factor
FILE REFERENCE: P114SRI
CURRENT APPLICATION NUMBER: US/09/773,517
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 09/243,198
PRIOR FILING DATE: 1999-02-02
NUMBER OF SEQ ID NOS: 14
SEQ ID NO 5
LENGTH: 637
TYPE: PRT
ORGANISM: Homo sapiens
US-09-773-517-5

Query Match 98.1%; Score 3284; DB 9; Length 637;
Best Local Similarity 98.6%; Pred. No. 4.9e-191;
Matches 636; Conservative 0; Mismatches 1; Indels 8; Gaps 1;

QY 1 MSERKEGKGKGGKKEGSGKKPESAGSOSPALPOLKEMKQESAGSKVLVRCETS 60
Db 1 MSERKEGKGKGGKKEGSGKKPESAGSOSPALPOLKEMKQESAGSKVLVRCETS 60
QY 61 SEYSLRFKMFQNGNELNRKNKPNIKIQKKPGKSELINRINAKSLADSGEYMKVSKLGN 120
Db 61 SEYSLRFKMFQNGNELNRKNKPNIKIQKKPGKSELINRINAKSLADSGEYMKVSKLGN 120
QY 121 DSASANTTVESNEITGMPTASTGAYVSSSPRIRISVSTEGANTSSSTSTTGTSHLV 180
Db 121 DSASANTTVESNEITGMPTASTGAYVSSSPRIRISVSTEGANTSSSTSTTGTSHLV 180
QY 181 KCAEKEKTCVNGGCECFMYKDLNRPRIYCKCPNETGRCQNYWAAEFYKHLGIEFMA 240
Db 181 KCAEKEKTCVNGGCECFMYKDLNRPRIYCKCPNETGRCQNYWAAEFYKHLGIEFMA 240

Db 181 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVYMASFYK-----A 232

Qy 241 EEIYQKRVLTITGICIALLVGIMCVAYCKTKQKKLHDLRQSLRSENNMNIANG 300

Db 233 EEIYQKRVLTITGICIALLVGIMCVAYCKTKQKKLHDLRQSLRSENNMNIANG 292

Qy 301 PPHNPPPPENVOLVNOVYKSVIKNVISEHIVREAEFTSTSHYSTAHSTTAVTQTPSHSW 360

Db 293 PPHNPPPPENVOLVNOVYKSVIKNVISEHIVREAEFTSTSHYSTAHSTTAVTQTPSHSW 352

Qy 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGPRGLNGTGPREGCNFLRHARETSDSY 420

Db 353 SNGHTESILSESHSVIWMSSVENSRHSSPTGPRGLNGTGPREGCNFLRHARETSDSY 412

Qy 421 RDSPHSERVYSAANTTPARMSPVDFHTPPSPKSPSEMSPPVSMYMSMAVSPMEBE 480

Db 413 RDSPHSERVYSAANTTPARMSPVDFHTPPSPKSPSEMSPPVSMYMSMAVSPMEBE 472

Qy 481 RPLLVTPRLREKKEFDHHPQOFSFHNNPDAHDSNLSPLRIYDEDEYETTOEYEPAO 540

Db 473 RPLLVTPRLREKKEFDHHPQOFSFHNNPDAHDSNLSPLRIYDEDEYETTOEYEPAO 532

Qy 541 EPVKKLANSRRAKRTKPNGHIANRLLEVDSNTSSQSSNSESETEDERVGEDTPELGIQNP 600

Db 533 EPVKKLANSRRAKRTKPNGHIANRLLEVDSNTSSQSSNSESETEDERVGEDTPELGIQNP 592

Qy 601 AASLEATPAFRLADSRTPAGRFSTOEIOLARLSSVIANODPIAV 645

Db 593 AASLEATPAFRLADSRTPAGRFSTOEIOLARLSSVIANODPIAV 637

RESULT 13

US-09-792-025-5

Sequence 5, Application US/09792025

Patent No. US20020042087A1

GENERAL INFORMATION:

APPLICANT: Silukowski, Mark

Kern, Jeffrey

TITLE OF INVENTION: Use of Heregulin as a Growth Factor

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatIn (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/792,025

FILING DATE: 23-Feb-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/020,598

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Schwartz, Timothy R.

REGISTRATION NUMBER: 32171

REFERENCE/DOCKET NUMBER: P1145

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-7467

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 637 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

MOLECULE TYPE: amino acid

SEQUENCE DESCRIPTION: SEQ ID NO: 5:

US-09-792-025-5

Query Match 98.1%; Score 3284; DB 9; Length 637;

Best Local Similarity 98.6%; Pred. No. 4,9e-191;

Matches 636; Conservative 0; Mismatches 1; Indels 8; Gaps 1;

Qy 1 MSEREGKGGKGGKKEKRGSGKPPESAAGSQSPALPPLQEKMSQESAAGSKLIVRCETS 60

Db 1 MSEREGKGGKGGKKEKRGSGKPPESAAGSQSPALPPLQEKMSQESAAGSKLIVRCETS 60

Qy 61 SEYSSILRFKFWKNGNELNRKNPKQNIKIQKPKGSELRINKASLADSGEYMKCVISKLN 120

Db 61 SEYSSILRFKFWKNGNELNRKNPKQNIKIQKPKGSELRINKASLADSGEYMKCVISKLN 120

Qy 121 DSASANTIVSENEITITGMPASTEGAYVSESPIRISVTEGANTSSSTSTGTGSHLV 180

Db 121 DSASANTIVSENEITITGMPASTEGAYVSESPIRISVTEGANTSSSTSTGTGSHLV 180

Qy 181 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVYMASFYKGLIEFMEA 240

Db 181 KCAEKEKTCVNGGECFVWKDLSNPSRYLCKCPNEFTGDRCONVYMASFYK-----A 232

Qy 241 EEIYQKRVLTITGICIALLVGIMCVAYCKTKQKKLHDLRQSLRSENNMNIANG 300

Db 233 EEIYQKRVLTITGICIALLVGIMCVAYCKTKQKKLHDLRQSLRSENNMNIANG 292

Qy 301 PPHNPPPPENVOLVNOVYKSVIKNVISEHIVREAEFTSTSHYSTAHSTTAVTQTPSHSW 360

Db 293 PPHNPPPPENVOLVNOVYKSVIKNVISEHIVREAEFTSTSHYSTAHSTTAVTQTPSHSW 352

Qy 361 SNGHTESILSESHSVIWMSSVENSRHSSPTGPRGLNGTGPREGCNFLRHARETSDSY 420

Db 353 SNGHTESILSESHSVIWMSSVENSRHSSPTGPRGLNGTGPREGCNFLRHARETSDSY 412

Qy 421 RDSPHSERVYSAANTTPARMSPVDFHTPPSPKSPSEMSPPVSMYMSMAVSPMEBE 480

Db 413 RDSPHSERVYSAANTTPARMSPVDFHTPPSPKSPSEMSPPVSMYMSMAVSPMEBE 472

Qy 481 RPLLVTPRLREKKEFDHHPQOFSFHNNPDAHDSNLSPLRIYDEDEYETTOEYEPAO 540

Db 473 RPLLVTPRLREKKEFDHHPQOFSFHNNPDAHDSNLSPLRIYDEDEYETTOEYEPAO 532

Qy 541 EPVKKLANSRRAKRTKPNGHIANRLLEVDSNTSSQSSNSESETEDERVGEDTPELGIQNP 600

Db 533 EPVKKLANSRRAKRTKPNGHIANRLLEVDSNTSSQSSNSESETEDERVGEDTPELGIQNP 592

Qy 601 AASLEATPAFRLADSRTPAGRFSTOEIOLARLSSVIANODPIAV 645

Db 593 AASLEATPAFRLADSRTPAGRFSTOEIOLARLSSVIANODPIAV 637

RESULT 14

US-09-849-868-5

Sequence 5, Application US/09849868

Patent No. US20020081299A1

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

ATTORNEY/AGENT INFORMATION:

TITLE OF INVENTION: HAIR CELL DISORDERS

FILE REFERENCE: GENENT.035VPC

CURRENT APPLICATION NUMBER: US/09/849,868

CURRENT FILING DATE: 2001-05-04

NUMBER OF SEQ ID NOS: 14

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 5

LENGTH: 637

TYPE: PRT

ORGANISM: Homo sapiens

US-09-849-868-5

Query Match 98.1%; Score 3284; DB 9; Length 637;

Best Local Similarity 98.6%; Pred. No. 4,9e-191;

Matches 636; Conservative 0; Mismatches 1; Indels 8; Gaps 1;

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